

Serial No. 10/073,972

H-1026

Amendment dated July 10, 2007

Response to Final Office Action mailed April 10, 2007

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims

1-9 (Cancelled)

10. (Currently Amended) A system for providing information across a computer network, said system comprising:

an information registering device which includes a first displays, a first an image of content rendered by a media and includes a positioning device and a first sending unit, said first display device displays an image of content rendered by a media, said first positioning device indicates a first indicating a desired object in said displayed image on said first display, and said sending unit sendings a first identification information containing an a first object information relevant to said indicated first desired object, a first keyword information entered by a user and a first reference information relevant to said content rendered by media to said computer network;

an information viewing device which includes a second display, a second positioning device and a second sending unit, said second display displays an image of content rendered by a media, said second positioning device indicates a second desired object in said displayed image on said second display, and said sending unit sends a second identification information containing a second object information relevant to said second desired object and that displays

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~~an image of content rendered by said media and sends a second keyword information entered by another user to said computer network; and~~

~~a database that links said first identification information, said first keyword information and said first reference information received from said information registering device through said computer network, and stores said linked information;~~

~~wherein said database performs a first matching process to match said first keyword information from said information registering device and said second keyword information from said information viewing device; and sends at least one of said first identification information and said first reference information linked to said first keyword information according to the result of said first matching process to said computer network; and~~

~~said information viewing device displays at least one of said first identification information and said first reference information from said database~~

a database which receives said first identification information, said first keyword information and said first reference information from said information registering device through said computer network, links said first reference information with said first identification information and said first keyword information, stores said first reference information, and adds said first reference information to reference information stored before,

wherein after said database receives said second identification information and said second keyword information from said information viewing device through said computer network, said database searches for reference information linked with both said second identification information and said second keyword information among said stored reference

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information including said first reference information, and sends said reference information linked with both said second identification information and said second keyword information to said information viewing device through said computer network; and

wherein said information viewing device receives said reference information from said database through said computer network and displays said reference information on said second display.

11. (Previously Presented) The system for providing information as recited in claim 10, wherein said database sends a stored keyword list prior to receiving said second keyword information from said information viewing device in response to an inquiry made from said information viewing device.

12 - 14. (Canceled)

15. (Previously Presented) The system for providing information as recited in claim 10, wherein said database comprises:

a keyword table which has at least an ID field for uniquely identifying a record entry and a keyword field to contain the first keyword, wherein one record entry includes at least its ID and a keyword;

a reference information table which has at least an ID field for uniquely identifying a record entry, a reference information field containing the first reference information, and a

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keyword ID field to containing the keyword ID associated with the reference information, wherein one record entry includes at least its ID, reference information, and the associated keyword ID;

a target image object table which has at least an ID field for uniquely identifying a record entry, a time and frame field containing information to identify media information, and an link ID field containing the ID of reference information linked with the object, wherein one record entry includes at least its ID, media information, and the ID of reference information linked with the object.

16. (Previously Presented) The system for providing information as recited in claim 10, wherein:

said content rendered by media is video image information distributed by TV broadcasting;

said first identification information further includes at least one of a broadcasting channel number over which the content was or will be broadcasted, receiving area, specified time length;

said first keyword information includes at least one of a keyword, keyword ID number, keyword type, specified time length, time when the keyword was registered, and a number of times the keyword has been selected as user preference; and

said reference information includes a URL (Uniform Resource Locator) that designates a Web site/page on the Internet.

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17. (Currently Amended) A method for providing information across a computer network, said method comprising steps of:

displaying an image of content rendered by media on a first display of an information registering device;

sending an first identification information containing an first object information relevant to a first desired object indicated by a first positioning device in from said displayed image on said first display, a first keyword information entered by a user and a first reference information relevant to said content rendered by media from said information registering device to a database through said computer network;

linking said first reference information with said first identification information, and said first keyword information and said reference information from said information registering device in said database;

storing said ~~linked~~ first reference information in said database;

~~matching said first keyword information and a second keyword information, which is entered by another user, sent from an information viewing device through said computer network, in said database;~~

~~providing at least one of said identification information and said reference information linked to said first keyword information according to the result of said matching from said database to said information viewing device through said computer network;~~

~~displaying at least one of said first identification information and said first reference~~

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~~information from said database on said information viewing device~~

adding said first reference information to reference information stored before in said database;

displaying said image of content rendered by said media on a second display of an information viewing device;

sending a second identification information containing a second object information relevant to a second desired object indicated by a second positioning device in said displayed image on said second display and a second keyword information entered by another user from an information viewing device to said database through said computer network;

searching for reference information linked with both said second identification information and said second keyword information among said stored reference information including said first reference information in said database;

sending said reference information linked with both said second identification information and said second keyword information from said database to said information viewing device through said computer network; and

displaying said reference information on said second display of said information viewing device.

18. (Canceled)

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19. (Currently Amended) An apparatus for providing information across a computer network, said apparatus comprising:

a database which stores a ~~received~~ first identification information containing ~~an~~ a first object information relevant to a first desired object in indicated from a displayed image of content of rendered by media, displayed on a first display of a first information terminal, a first keyword information entered by a user into said first information terminal and a first reference information relevant to said media from a said first information terminal, links said first reference information with said first identification information, and said first keyword information, adds and said first reference information are linked each other to reference information stored before in said database, and receives a second identification information containing a second object information relevant to a second desired object in content rendered by media, displayed on a second display of a second information terminal, and a second keyword information entered by another user into said second information terminal, from said second information terminal through said computer network;

a matching unit which searches for reference information linked with both said second identification information and said second performs a first matching process to match said first keyword information stored in said database and a received second keyword information, which is entered by another user, from a second information terminal through said computer network among said stored reference information including said first reference information;
and

a sending unit which ~~provides at least one of said first identification information and~~

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~~said first reference information linked to said first keyword information according to the result of said first matching process~~ sends said reference information linked with both said second identification information and said second keyword information to said second information terminal through said computer network.

20. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein said apparatus sends a keyword list prior to receiving said second keyword information in response to inquiry made from said second terminal.

21-23. (Canceled)

24. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein said database comprises:

a keyword table which has at least an ID field for uniquely identifying a record entry and a keyword field to contain the first keyword, wherein one record entry includes at least its ID and a keyword;

a reference information table which has at least an ID field for uniquely identifying a record entry, a reference information field containing the first reference information, and a keyword ID field to containing the keyword ID associated with the reference information, wherein one record entry includes at least its ID, reference information, and the associated keyword ID;

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a target image object table which has at least an ID field for uniquely identifying a record entry, a time and frame field containing information to identify media information, and an link ID field containing the ID of reference information linked with the object, wherein one record entry includes at least its ID, media information, and the ID of reference information linked with the object.

25. (Previously Presented) The apparatus for providing information as recited in claim 19, wherein:

said content rendered by media is video image information distributed by TV broadcasting;

said first identification information further includes at least any of a broadcasting channel number over which the content was or will be broadcasted, receiving area, specified time length;

said first keyword information includes at least any of a keyword, keyword ID number, keyword type, specified time length, time when the keyword was registered, and the number of times the keyword has been selected as user preference; and

said reference information includes a URL (Uniform Resource Locator) that designates a Web site/page on the Internet.